

RC-V1BD1A1TR Series

1-CHANNEL DIGITALLY ENCODED VIDEO/ 1-CHANNEL BI-DIRECTIONAL DATA/ 1-CHANNEL BI-DIRECTIONAL AUDIO TRANSCEIVER





OVERVIEW

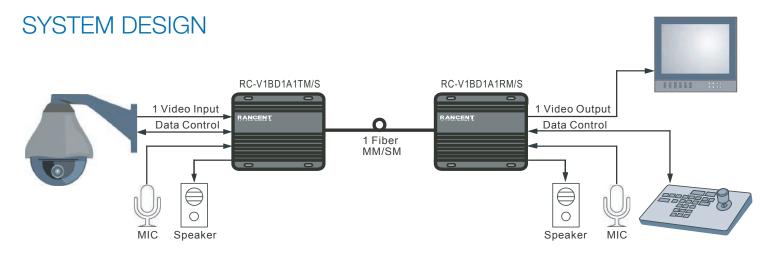
RC-V1BD1A1T/R Series transmitter and receiver transmit 1-channel 8-bit digitally encoded video,1-channel bi-directional data and 1-channel bi-directional audio over one core singlemode or multimode fiber. Optimized optical modules ensure the highest performance for most demanding CCTV applications. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation. The modules are available in either standalone or rack mount versions.

APPLICATIONS

- CCTV(Fixed Video)
- Intelligent transportation systems (ITS)
- Security and surveillance
- Access Control

FEATURES

- 8-Bit Digitally Encoded Uncompressed Transmission
- 24-Bit Digitally Encoded Audio Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video, Data and Audio
- High Performance Laser-based Optics
- Plug-and-play Design with No Adjustment Required
- Local LED Indicators to Monitor System Status
- Wide Optical Dynamic Range
- No EMI, RFI, Cross Talk and Video Distortion
- Support up to 30KM
- No Video Degradation and Optical Attenuation
- Multimode or Singlemode Fiber
- Standalone or Rack Mount Options



RC-V1BD1A1TR Series

- 1-Channel Digital Encoded Video/1-Channel Bi-directional Data / 1-Channel Bi-directional Audio Transceiver

SPECIFICATIONS

Video	
Video Input	1 volt pk-pk (75 ohms)
Video Voltage Range	0.6~2.0Vp-p
Video Input/Output Channels	1
Bandwidth	5 Hz to 8 MHz
Bit Resolution	8-bit
Differential Gain	1%
Differential Phase	<1°
Tilt	< 1%
0/11 D 11	00 10 (4/ ' 1 1)

S/N Ratio > 60dB (Weighted)

Data

Data Protocol RS485/RS422/RS232

Data Rate 0~300kps

Error Rate 10

Audio

Audio Impedance 600 Ohms Max Input/Output Voltage 2.0Vp-p

10Hz ~ 20KHz Frequency Response

Bit Resolution 24-bit

S/N Ratio > 95dB (Weighted) Indicating LEDs **Power Present** Video Present

Optical

Wavelength 850/1310nm, MM 1310/1550nm, SM

Optical Emitter Laser Diode

Number of Fibers

Connectors

ST or SC Optical Video **BNC**

Data/Audio/Contact **Terminal Screws** Ethernet Shielded RJ45

General

Power Supply DC5V 2A

Size 110 x 104 x 28mm

Construction: Aluminum Finish: Paint

> 100,000 hours MTBF: Operating Temp -35° C to + 65°C Storage Temp -40° C to +85°C

ORDERING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	
	1 Video/1 Bi Data/1 Bi Audio TX		20dB	30KM
RC-V1BD1A1RS	1 Video/1 Bi Data/1 Bi Audio RX	Singlemode	20dB	30KM
RC-V1BD1A1TM	1 Video/1 Bi Data/1 Bi Audio TX	Multimode	14dB	3KM
RC-V1BD1A1RM	1 Video/1 Bi Data/1 Bi Audio RX	Multimode	14dB	3KM

^{*}Optical transmission distance is limited to optical loss of the fiber and any additional lossintroduced by connectors, splices and patch panels.

